



CA15103



UNIVERSITÀ
DEGLI STUDI
DI PALERMO

COST-ANR MEDSALT SYMPOSIUM

University of Palermo

third circular, October 14 2016

Workshop: 24-26 October 2016

Messinian evaporites field trip: 27-28 October 2016.





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COST-ANR MEDSALT SYMPOSIUM

Workshop: University of Palermo, 24-26 October 2016
Messinian evaporites field trip, 27-28 October 2016.

Scope: To gather experts and Early-stage researchers to discuss the state of the art of research on the Mediterranean Salt Giant and the scientific drilling objectives in the framework of the objectives of:

- COST Action CA15103
- ANR Networks MEDSALT
- IODP pre-Proposal P857B DREAM

Scientific Committee:

Vanni Aloisi, Paris

Angelo Camerlenghi, Trieste

Christian Hübscher, Hamburg

Johanna Lofi, Montpellier

Vinicio Manzi, Parma

Roger Urgeles, Barcelona

Hrustem Smailhodzic, Travnik

Daniel Garcia-Castellanos, Barcelona

Andrea Moscariello, Genève

Francesca Petrera, Trieste

Manja Zebre, Ljubljana

Romana Kacic, Piran

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Local Host (logistics, and Field Excursion coordinator):

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Angelo Camerlenghi acamerlenghi@inogs.it

Venue:

FIRST DAY:

Palazzo STERI

Sala delle Capriate

Piazza Marina, 61 90133 Palermo

SECOND AND THIRD DAY:

Orto Botanico (Botanic Garden)

Sala Lanza

Via Lincoln, 2 90133 Palermo





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COST-ANR MEDSALT SYMPOSIUM

Program

MONDAY OCTOBER 24			
8:15-9:00	REGISTRATION		
09:00 -10:00	WELCOME AND INTRODUCTION	The Rector of the University of Palermo, President of OGS; Angelo Camerlenghi/Johanna Lofi, Vanni Aloisi. Antonio Caruso for Logistics Romana Kacic	
1 10:00-10:15	Scientific Research of MSC as a game		
WG1 - Messinian Salinity Crisis			
2 10:15-10:30	Overview	Johanna Lofi	
	<i>10:30-11:00 COFFEE BREAK</i>		
3 11:00-11:15	Toward an improved global climate context for the Messinian Salinity Crisis	Tim Herbert et al.	1
4 11:15-11:30	Orbital control on the simulated late Miocene Mediterranean Sea and Paratethys freshwater budget: proposing new scenarios for the Messinian Lago-mare stage	Alice Marzocchi et al.	2
5 11:30-11:45	Adding spatial variation to models for the salinity of the Messinian basin	Paul Meijer and Dirk Simon	3
6 11:45-12:00	Evaporite accumulation during the Messinian Salinity Crisis: a modeling approach	Julien Gargani	4
7 12:00-12:15	Salt and lakes: reconstructing late Messinian palaeohydrology using exogenous drainages	Sean Connel and Andrew Madof	5
8 12:15-12:30	Hydrology of marginal evaporitic basins during the Messinian Salinity Crisis: isotopic investigation of gypsum hydration water	Aïda El Kilany et al.	6
9 12:30-12:45	Miocene to Pleistocene osmium isotopic records of the Mediterranean sediments	Junichiro Kuroda et al.	7
10 12:45-13:00	Paleogeography of the Black Sea during the Messinian salinity crisis	Natalia Tyuleneva and Igor Suchkov	8
	<i>13:00-14:30 LUNCH</i>		
11 14:30-14:45	Integrated stratigraphy and chronology of Messinian evaporites from the Levant basin in the deep eastern Mediterranean	A. Meilijson et al.	9
12 14:45-15:00	Effect of Messinian Evaporites in Hydrocarbons Prolific and Prospective Basins in the Mediterranean and Red Sea	Amani Badawi and Y. Hassaan	10
13 15:00-15:15	Onshore-offshore correlation of the Messinian salinity crisis record in the Strymon-Prinos-Kavala area	Vasileios Karakitsios et al.	11
14 15:15-15:30	Origin and evolution of the Messinian basins developed on top of the Sicilian Fold and Thrust belt	Attilio Sulli et al.	12
15 15:30-15:45	Calcareous nannofossil bioevents in the pre-evaporitic Messinian	Alessandra Negri and Francesca Lozar	13
16 15:45-16:00	Messinian Erosion Surface onshore/offshore Ibiza Island, Balearic Promontory.	Agnès Maillard et al.	14
	<i>16:00-16:30 COFFEE BREAK</i>		
17 16:30-16:45	Overview and Preliminary porewater results for samples from the MEDSALT cruise, July-2015, compared to DSDP and ODP results from nearby sites. 2015, compared to DSDP and ODP results from nearby sites.	Gert J. De Lange et al.	15
18 16:45-17:00	First ⁴⁰ Ar/ ³⁹ Ar dates for the Abad Mb (Sorbas basin, SE Spain): testing the age of the MSC onset	Luis Gibert et al.	16
19 17:00-17:15	Precessional Sr isotope variability in the late Miocene Sorbas Basin and what this tell us about the relationship between the Mediterranean and its marginal basins before and during the MSC	Sevasti Modestou et al.	17
20 17:15-17:30	A significant discontinuity near the Miocene Pliocene boundary in the Atlantic margin of Spain and the Messinian Salinity Crisis	Francisco Javier Sierro et al.	18

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How did paroxysm of the Messinian Salinity Crisis impact the Alboran Sea?	Damien Do Couto et al.
Sedimentological and petrophysical characterizations of the Messinian sandstones, onshore Nile Delta, Egypt	Leila Mahmoud and Andrea Moscarriello
MSC knowledge on the Balearic Promontory	Agnès Maillard
Structure and Neogene evolution of the Balearic Promontory	Agnès Maillard et al.
Evidences of pre-Zanclean marine reflooding of the Mediterranean Basin	Jean-Pierre Suc et al.
The Messinian/Zanclean boundary in the Red Sea' record.	Antonio Caruso et al.
"New data" from DSDP Leg 23 (Site 225)	
MSC seismic imaging and geological evolution of two back-arc basins in the Western Mediterranean	Del Ben et al.
The MSC Central Balearic Depression: an undeformed analog for the MSC Sicilian basin?	Johanna Lofi et al.

10:30-11:00 COFFEE BREAK**WG2 - Salt Tectonics, fluids and geohazards**

21 11:00-11:15	Overview	Christian Huebscher and Roger Urgeles	
22 11:15-11:30	Focused fluid flow in the Eastern Mediterranean	Claudia Bertoni et al.	1
23 11:30-11:45	Fluid flow scenarios during the Messinian Salinity Crisis: evidences from the Brecciated Limestones of the Western Mediterranean Basin	Annalisa Iadanza et al.	2
24 11:45-12:00	The spatial, temporal and volumetric analysis of a large mud volcano province	Christopher Kirkham et al.	3
25 12:00-12:15	Heat flow anomalies on the Western Mediterranean margins and the possible role of fluid flow and salt tectonics: first results of the WestMedFlux-2016 cruise	Jeffrey Poort et al.	4
26 12:15-12:30	Seismic stratigraphy of eastern Mediterranean Messinian evaporites	Andrew S. Madof and Sean D. Connell	5
27 12:30-12:45	A fast method to identify potentially unstable soils - application to salt	Carl Fredrik Forsberg et al.	6
28 12:45-13:00	Salt tectonic features offshore, Nile Delta, Egypt	Amr Hamouda	7

13:00-14:30 LUNCH

29 14:30-14:45	Mediterranean salt accumulations – a result of long-term tectonic activities?	Martin Hovland et al.	8
30 14:45-15:00	Grain-scale controls on permeability, capillary pressure, and mechanical strength in subsalt and intrasalt mudrocks	Hugh Daigle et al.	9
31 15:00-15:15	Investigation of the evolution of accretionary wedges with viscous décollements – utilizing numerical "sandbox" simulations	Katrin Huhn et al.	10
32 15:15-15:30	3d structural model of the Sicilian Gela thrust system: A first step to understand the Central Mediterranean paleogeography during the messinian	Daniel Contla et al.	11
48 15:30-15:45	Dating the initial activity and inferring rates of displacement along normal faults offshore Israel: faulting triggers slumping or vice versa?	Zohar Gvirtzman et al.	12
47 15:45-16:00	Influence of the Mid-Pleistocene Transition on the development of submarine canyons on the Ebro Margin, NW Mediterranean: the role of fluvial connection	Marie Aline Mauffrey et al. <i>(WG4 talk that cannot be given on Wednesday)</i>	5

16:00-16:30 COFFEE BREAK**WG3 - Deep Biosphere**

33 16:30-16:45	Overview	Giovanni Aloisi, Paris, France	
34 16:45-17:00	Microbial life in modern and ancient halite	Terry J. McGenity et al.	1
35 17:00-17:15	Contribution of organic geochemistry to the Messinian Salinity Crisis	Nao Ohkouchi et al.	2
36 17:15-17:30	The molecular fossil record at the onset of the Messinian Salinity Crisis	Marcello Natalicchio et al.	3

18:00 Visit Museum and Conference Flavio Bonin. Salt trades in the Mediterranean.**20:00** Social dinner

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37	09:00-09:15	The microbiological content of Messinian Gypsum	Francesco Dela Pierre et al.	4
38	09:15-09:30	Geochemical behaviour of Rare Earths, Zr and Hf during halite crystallisation	Paolo Censi and Claudio Inguaggiato	5
39	09:30-09:45	Carbonate deposition during the Messinian Salinity Crisis: Facies distribution and role of the microbial mediation (calcare di base Fm - Southern Italy)	Edoardo Perri et al.	6
40	09:45-10:00	A proposal to explore the viruses in The Mediterranean Salt Giant	Fernando Santos et al.	7
41	10:00-10:15	Lowermost Pliocene sediments at DSDP Leg 42A, Site 374, Ionian Abyssal Plain: A "Natural Laboratory" to study on-going dolomite precipitation associated with bacterial sulfate reduction	Judith A. McKenzie et al.	8

WG4 - Deep Earth to surface processes interactions

42	10:15-10:30	Overview	Daniel Garcia-Castellanos/Andrea Moscarillo	
<i>10:30-11:00 COFFEE BREAK</i>				
43	11:00-11:15	Neogene Tectonics and the Messinian Salinity Crisis	Cesar Ranero et al.	1
44	11:15-11:30	Increased magma production and volcanism triggered by the Messinian Salinity Crisis	Pietro Sternai et al.	2
45	11:30-11:45	Morphology and the age of karst relief in W Slovenia	Andrej Mihevc	3
46	11:45-12:00	The shoreline in the Po Plain-Northern Adriatic basin during the Latest Messinian sea- level drop: 3D modeling and backstripping analysis	Chiara Amadori et al.	4

12:00 - 12:30 WG2 posters

Deformation character of submarine landslides in salt basins – examples from the Espírito Santo Basin (SE Brazil).	Davide Gamboa
Early rise and contractional reactivation of distal salt diapirs in the Western Mediterranean : a new two-step scenario	Virginie Gaullier et al.
Deep basin Messinian evaporites on the southern Balearic margin, Western Mediterranean	Angelo Camerlenghi et al.

12:30-13:00 WG4 Posters

Interaction between crustal tectonics and salt deformation in the Eastern Sardinian margin, Western Tyrrhenian Sea: seismic data and analogue modelling	Virginie Gaullier et al.
Neogene Tectonics and the Messinian Salinity Crisis	Cesar R. Ranero et al.

13:00-14:30 LUNCH**SCIENTIFIC DRILLING and other initiatives**

49	14:30-14:45	Investigating Miocene Mediterranean-Atlantic Gateway Exchange (IMAGE) – an amphibious drilling proposal that complements DREAM	Rachel Flecker	
50	14:45-15:00	The DREAM P857B IODP Drilling project on the Balearic Promontory	Johanna Lofi	
51	15:00-15:15	Site Survey and environmental impact issues	Angelo Camerlenghi	
52	15:15-15:45	The impact of underwater noise on marine life: establishment of mitigation measures according to different Mediterranean legislations and MSFD	Carla Alvarez Chicote	
53	15:45-16:00	Discussion: Strategy for overcoming the environmental impacts issues		
<i>16:00-16:30 COFFEE BREAK</i>				
54	16:30-16:45	Riser Drilling perspectives	Camerlenghi, Lofi, Aloisi, Kuroda	
55	16:45-17:00	End of Workshop - future actions		
56	17:00-17:30	INTRODUCTION TO FIELD TRIP	tbn	

17:30 19:00 MEDSALT COSTAction CA15103 SC MEETING (only for MC members, substitutes, and observers)

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THURSDAY OCTOBER 27

Field Excursion Day 1 - Ciminna, Santa Elisabetta , Eraclea Minoa
NIGHT OUT in Agrigento

FRIDAY OCTOBER 28

Field Excursion Day 1 - Realmonte Mine, Capo Rossello
NIGHT in Palermo

Saturday October 29: Departure of participants

note: details of the field trip program will be provided on site.

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Logistics

All participants have been notified the Hotel they have been booked.

For Palermo Airport to Hotels, use public transportation (bus - Prestia & Comandè, 6.30 Euro), taxis (35.00 Euro) or collective taxis (7/8 Euro). The box office of the collective taxis is close to the bus terminal.

Note that the meeting location will change on the second day. You will be given all necessary instruction on site.

COST Action CA15103 MEDSALT Management Committee Members, Substitutes, and Observers will have to attend the MC Meeting on Wednesday at 17:30.

The field trip will be with a bus provided by the organization. Accommodation for Thursday night (during the field trip) has been arranged by the organization. You only need comfortable outdoor shoes and raincoat.

The last night (Friday Oct 28) will be spent in the same hotels used before leaving for the field trip.

All local expenses (local transportation, meals and hotel) will have to be anticipated by participants. Reimbursement will be provided after the meeting , according go each individual agreement, through the COST Action CA15103 MEDSALT and ANR MEDSALT Project, provided you justify all expenses according to instructions. Meal will be charged on site 20 Euro each (**only cash. Be ready to pay daily the meal costs on cash**). A social dinner will take place on Tuesday 25 October (**20 Euro cash**). Coffee break and field trip transportation will be covered by the organization.

IMPORTANT: reimbursement will be possible ONLY if each participant sign the list of participation that will be available at the Workshop and during the Filed trip. **PLEASE MAKE SURE YOU SIGN EACH DAY.**

Check the weather forecast for time of the workshop. Temperature can be above 22 degrees C.

Reference:

ANR funds: Vanni Aloisi giovanni.aloisi@locean-ipsi.upmc.fr

COST funds: Giorgia Rivoira grivoira@inogs.it, and Angelo Camerlenghi acamerlenghi@inogs.it



COST-ANR MEDSALT SYMPOSIUM

List of participants

	Surname	Name	Affiliation	Country	Email	Excursion
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List of parti





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- | | | |
|---|--|--------------------------------|
| 1 Palazzo Chiamonte (14 th century- (Meeting 1 th day - Sala delle Capriate) | 12 B&B Addauru | 24 Hotel Villa Archirafi |
| 2 Botanic Garden 18 th century - (Meeting 2 th and 3 th day - Sala Lanza | 13 B&B Piazza Marina | 25 Social Dinner Palazzo Leone |
| 3 Hotel de France and Hotel Il Goliardo (University Residence) | 14 B&B Cosmopolitan | |
| 4 Piazza Marina (14-15 th century) | 15 B&B University Residence "Santissima Annunziata" (17 th century) | |
| 5 Cala (Ancient Harbour of Palermo) | 16 Dipartimento di Scienze della Terra e del Mare (University of Palermo) | |
| 6 Palazzo Abatellis (Archeological Museum) | 17 B&B Palermo Ti Amo | |
| 7 Kalesa - Emir Castle (11 th century) | 18 Piazza della Vergogna or Piazza Pretoria (16 th century) | |
| 8 Church Santa Maria dello Spasimo (15 th century) | 19 Cathedral (11-16 th century) | |
| 9 NH HOTEL | 20 Teatro Massimo | |
| 10 Hotel Ambasciatori (19 th century) | 21 B&B ai Vicerè | |
| 11 Chiesa della Magione (12 th century) | 22 B&B via Roma | |
| | 23 B&B Jardin de France | |

Location of Hotels and Meeting



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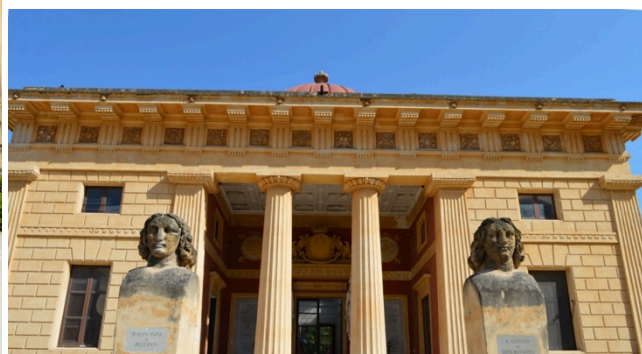


FIRST DAY:

Palazzo STERI

Sala delle Capriate

Piazza Marina, 61 90133 Palermo



SECOND AND THIRD DAY:

Orto Botanico (Botanic Garden)

Sala Lanza

Via Lincoln, 2 90133 Palerm

Field Trip snapshots



Halite Kainite alternations, Realmonte mine



Halite and erosional surface, Realmonte mine



Scala dei Turchi - Zanclean